1	INTERNATIONAL SEARCH REPORT		International appl	ication No.
			PCT/JP2	2004/018829
A. CLASSIFI Int.Cl	CATION OF SUBJECT MATTER 7 F04B39/10			
According to In	ternational Patent Classification (IPC) or to both nation	nal classification and IP	С	·
B. FIELDS SI				
Minimum docui Int . Cl	mentation searched (classification system followed by c F04B39/00-39/16, F16K15/00-1	classification symbols) 5/20		
Jitsuyo Kokai J		oroku Jitsuyo Si itsuyo Shinan To	hinan Koho oroku Koho	1994-2005 1996-2005
)		data base and, where p	racticable, search to	enns usea)
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a			Relevant to claim No.
X Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 51501/1988(Laid-open No. 158576/1989) (Calsonic Corp.), 01 November, 1989 (01.11.89), Full text; Fig. 1 (Family: none)		1 2,3	
Y	Microfilm of the specification annexed to the request of Jap Model Application No. 59872/1 No. 172970/1982) (Hitachi, Ltd.), 30 October, 1982 (30.10.82), Full text; Figs. 2 to 4 (Family: none)	panese Utilit	ý	2
× Further do	cuments are listed in the continuation of Box C.	See patent fam	ily annex.	
 Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family Date of mailing of the international search report		
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	Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018829

Category*	Citation of document, with indication, where appropriate, of the relevant pass	sages Relevant to claim N
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 84047/1980(Laid-open No. 8958/1982) (Tokyo Shibaura Electric Co., Ltd.), 18 January, 1982 (18.01.82), Full text; Figs. 3 to 5 (Family: none)	2,3
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 114842/1988 (Laid-open No. 34776/1990) (Daikin Industries, Ltd.), 06 March, 1990 (06.03.90), Full text (Family: none)	3
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 119655/1978 (Laid-open No. 36963/1980) (Tokyo Shibaura Electric Co., Ltd.), 10 March, 1980 (10.03.80), Full text (Family: none)	3
А	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 146342/1979(Laid-open No. 65269/1981) (Hitachi, Ltd.), 01 June, 1981 (01.06.81), Full text (Family: none)	1-3
A .	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 171542/1985 (Laid-open No. 79986/1987) (Diesel Kiki Co., Ltd.), 22 May, 1987 (22.05.87), Full text (Family: none)	1-3